

DEPARTMENT OF PUBLIC UTILITIES OFFICE OF THE DIRECTOR

September 24, 2014

Mr. Fred Cunningham MS4 Program Manager Virginia Department of Environmental Quality 629 East Main Street Richmond, Virginia 23219

Re: City of Richmond Municipal Separate Storm Sewer System (MS4)

2013-2014 Annual Report for Permit VAR040005

Dear Mr. Cunningham:

Please find enclosed the annual report for July 1, 2013 through June 30, 2014. The annual report was prepared in accordance with current MS4 permit regulations, 4VAC50-60-1200, et seq.

If you have any questions or concerns please contact me at (804) 646-1378.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Robert C. Steide

Director

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Attachments: City of Richmond MS4 2013-2014 Annual Report

Attachment A: Monitoring Data

Attachment B: Illicit Discharge Investigation Summary

Attachment C: BMP Inventory Summary

Attachment D: List of new BMPs

Attachment E: List of Facilities Requiring SWPPPs

cc: Christopher Beschler, Acting Chief Administrative Officer

Willie Horton, Deputy Director

Ionet Prevost-White, Operations Manager

City of Richmond Municipal Separate Storm Sewer System 2013 - 2014 Annual Report

Introduction

This annual report covers the reporting cycle July 1, 2013 through June 30, 2014 - Permit Year 1. The report includes the status of compliance with the permit conditions, the appropriateness of the best management practices and progress towards achieving the identified measurable goals for each of the minimum control measures, and the reporting requirements of the general permit.

Roles and responsibilities described in the program plan have not changed during this reporting period. DPU administers all aspects of stormwater management including operation and maintenance, design, construction, and regulatory compliance. The City constructed no new Municipal Separate Storm Sewer System (MS4) outfalls during this reporting period.

The status of the MS4 program plan and a summary of the activities planned for the next reporting cycle are included in the following sections. The Utility continues to adjust to assuming responsibility for the VSMP Program as well as planning for the new MS4 Phase II General Permit. The Utility will plan for compliance with both programs during the next year. The new MCMs will incorporate the state stormwater regulations into the City's stormwater program.

The City of Richmond does not rely on another government entity to satisfy any of the permit obligations.

Monitoring data collected during this reporting cycle from the following creeks (Pocoshock, Pocosham, Crooked Branch (tributary to Reedy Creek) and Upham Brook) is included in Attachment (A).

The City investigated twenty-seven potential illicit discharges during this reporting cycle. The illicit discharges are documented in Attachment (B).

Land disturbing activities during the reporting cycle included 302 permits issued and 121.464 acres of land disturbance.

A full inventory of structural controls located within the City is included in Attachment (C).

A list of new structural controls placed in operation during the reporting cycle is included as Attachment (D).

MS4 Program Plan Compliance Status

1. Public Education & Outreach on stormwater impacts

Purpose

The objective of this BMP is to increase target audience knowledge about steps to take to reduce stormwater pollution and about the hazards of illegal discharges and improper waste disposal.



Fourth district Councilwoman Kathy Graziano at HHW event May 2013

Measurable Goals

1a. Continue Public Education and Outreach program

1b. Program goals:

- 1. Increase knowledge on reducing stormwater pollution;
- 2. Increase knowledge on illegal discharge/improper waste disposal hazards:
- 3. Target program to audiences most likely to have significant stormwater impacts

1c. Program components:

1. ID three high priority water quality issues, including selection rationale

The three water quality issues we will focus our efforts on are

- 1. Pollution Prevention and Illicit Discharge Awareness
- 2. Reducing bacteria pollution from pet waste
- 3. Reducing nutrient pollution from improper application of fertilizers

2. ID and estimate target population size of audience who has most impact

- 3. Develop messages to targeted audiences
- 4. Provide for public participation
- 5. Reach 20% of target audience;
- 6. Adjust messages as necessary.

Our estimates for target audiences for each of the issues are as follows:

| Water Quality Issue | Target Audience Population | Target Audience Population |
|---------------------|---|-------------------------------|
| PP Awareness | All city residents | 215,000 |
| Pet Waste | Dog owners | 56,000 |
| Nutrient pollution | City residents, lawn care professionals | 50,000 |

1d. Coordinate with other MS4s

As evidence of our public education and outreach effort, the following activities were held during the reporting period:



DPU employee Sarah Henrikson marking a storm drain. August 2013

High Priority Issue #1: Pollution Prevention & Illicit Discharge Awareness

| Measureable Goal | # of People Reached | % of Target Audience Reached |
|--|------------------------|---------------------------------|
| Coordinated drain cleanings and markings | 75 | 0.03% |
| Hosted Household Hazardous Waste Pickup | 200 | 10% |
| Distribute FOG brochures to businesses | 200 | 20% |

High Priority Issue #2: Bacteria

| Measureable Goal | # of People Reached | % of Target Audience Reached |
|--|------------------------|---------------------------------|
| Distributed Pet Waste Bags | 34,400 | 10% |
| Attended community events & distributed bags | 500 | 20% |

High Priority Issue #3: Stormwater Education

| | # of People | % of Target |
|---|-------------|------------------|
| Measureable Goal | Reached | Audience Reached |
| Distributed PP information at Neighborhood Meetings | 250 | <1 % |
| Presented information to 4 th and 5 th graders in RPS | 341 | 2% |
| Hosted Rain Barrel Decoration Contest for Middle School students | 400 | 2% |

Rain barrels decorated by RPS students displayed at Earth Day Festival. April 2013



Schedule of Activities for Next Reporting Cycle

During the next year, DPU will continue its public education efforts. The list of activities planned for next year is as follows:

High Priority Issue #1: Pollution Prevention & Illicit Discharge Awareness

| Measureable Goal | Est. # of People Reached | Est. % of Target Audience Reached |
|---|-----------------------------|--|
| Host neighborhood cleanup | 75 | 3% |
| Household Hazardous Waste Collection Insert/Event | 5,000 | 10% |
| Distribute FOG brochures to businesses | 200 | 20% |
| Distribute commercials | 40,000 | 20% |
| Write articles for newsletters | 3 articles | 20% |
| Educate new COR employees on pollution prevention | 100 | 20% |
| Educate 5 th and 8 th graders on pollution prevention | 2800 | 20% |
| Civic Association Meetings | 20 meetings | 20% |

High Priority Issue #2: Bacteria

| Measureable Goal | Est. # of bags | Est. % of Target Audience Reached |
|---------------------------|-------------------|--------------------------------------|
| Distribute pet waste bags | 35,000 | 30% |

High Priority Issue #3: Nutrient Reduction

| Measureable Goal | Est. # of People Reached | Est. % of Target Audience Reached |
|---|--------------------------------|--------------------------------------|
| Public Service Announcement | 40,000 | 20% |
| Conduct Nutrient Management Workshop with golf courses, lawn care professionals | 10 businesses | 30% |
| Provide posters at Garden Centers | 5 businesses | 20% |

2. Public Involvement & Participation



Fifth & sixth graders from Lucille Brown MS plant shrubs in Forest Hill Park during "Team Wood Thrush Day". May 2013

Purpose

The objective of this BMP is to be a tool to promote public involvement in preventing polluted stormwater runoff from reaching the MS4.

Measurable Goals

2a. Maintain & post online an updated MS4 Program Plan and Annual Report.

A link to the MS4 Program Plan is here MS4 Program Plan. A link to the Annual Report is here MS4 Annual Report.

2b.Participate, through promotion, sponsorship, or other involvement, in a minimum of four local activities annually.

As evidence of our Public Participation effort, Stormwater Utility staff participated and/or planned the following activities held during the reporting period:

| Activity | Pollutant Target | Audience | |
|---|-------------------------------|----------|--|
| Sponsored Rain Barrel Decoration Contest for RPS Students | Polluted Runoff | students | |
| Hosted Household Hazardous Waste Collection Event | Hazardous waste | citizens | |
| Participate in other watershed organizations | Nutrients, sediment, bacteria | citizens | |

2c. The MS4 Program Plan shall include written procedures for implementing this program.

Schedule of Activities for Next Reporting Cycle

| Activity | Pollutant Target | Audience | |
|---|-------------------------------|-------------------------|--|
| Host stream cleanup in Bellemeade neighborhood | Trash | citizens | |
| Host Household Hazardous Waste Collection Event | Hazardous waste | citizens | |
| Participate in other watershed organizations | Nutrients, sediment, bacteria | citizens | |
| Host Nutrient Management Workshop | Nutrients | lawn care professionals | |

3. Illicit Discharge Detection and Elimination



SSO observed at Match Point Apts. during outfall investigation Feb 2014



Same location after remediation. August 2014

Purpose

The objective of this Minimum Control Measure is to reduce the discharge of pollutants from the MS4, to protect water quality and ensure compliance with water quality standards and with the Clean Water Act. DPU has a process to investigate and reduce illicit discharges through the industrial pretreatment program and the Community Assisted Public Safety (CAPS) program.

A list of illicit discharges investigated in 2013 - 2014 is in Attachment B.

Measurable Goals

3a. Maintain an accurate storm sewer system map and information table.

DPU has a schedule to map the remaining storm sewer system by the end of the permit term, including all relevant required information. We intend to map points of discharge from the MS4 and outfalls to receiving waters. We expect to coordinate with adjacent MS4 permit holders, including VDOT.

3b. DPU has an ordinance that prohibits non-stormwater discharges into the storm sewer system, in accordance with federal, state, and local laws and regulations.

The ordinance that prohibits non-stormwater discharges can be read here.

3c. DPU has procedures to inspect and identify unauthorized non-stormwater discharges, including illegal dumping to the MS4.

The department has procedures to inspect and identify unauthorized non-stormwater discharges.

The total number of outfalls screened during the reporting period was 126; 76 of the outfalls were dry, leaving 50 outfalls discharging; samples were collected from these outfalls. Results for the discharging outfalls are in Attachment A.

Field personnel observed two separate sanitary sewer overflows from privately owned sanitary infrastructure directly discharging to city creeks while performing outfall screening.

Location #1: Town and Country Apartments, 6400 Green Bank Rd.

Issue: On Jan. 9 2014, City staff identified a sanitary sewer overflow from a failed private sanitary lateral at Town and Country Apartments during outfall reconnaissance activities. The flow from the lateral was observed to be discharging directly to Pocosham Creek at an estimated rate of approximately 10-20 GPM.

Action: City staff informed management staff of the issue. Management was required to repair immediately the issue and stop the discharge. An incident report was forwarded to Code Enforcement. The sanitary back up was stopped within 24 hours. A notice of violation letter requiring abatement the area affected by the sanitary back-up was issued to the property owner.

Follow-up: A follow-up inspection on Feb 6, 2014 revealed the area as adequately remediated. The area will be schedule for additional observation once every 6 months until July 2018.

Location #2: Midlothian Village Apartments, 4000 Midlothian Turnpike

Issue: On Mar. 10, 2014, City staff observed evidence of a sanitary sewer overflow at a culvert along Crutchfield Avenue during outfall reconnaissance activities.

Action: Investigation revealed the sanitary impact had likely resulted from a back up of a private sanitary lateral discharging to Crooked Branch, a tributary to Reedy Creek. City crews cleared the blockage. However, since the overflow occurred in a section of Crooked Branch enclosed within concrete pipes, the inflow point could not be located. City staff notified the owner that if additional sanitary impacts were observed and traced to a failure in the property's private sanitary collection system, the City would pursue enforcement.

Follow-up: We scheduled the area for additional observation once every 6 months until September 2018. No evidence of additional sanitary impact has been observed.

Additionally, City staff observed three separate privately owned intake lines, which appeared to have been connected to Pocosham Creek for drawing water. We observed the intake lines while performing outfall-screening operations.

Schedule of Activities for Next Reporting Cycle

Throughout the permit term, DPU will continue to investigate and eliminate illicit discharges through the Industrial Waste & Pretreatment and CAPS programs.

4. Construction Site Stormwater Runoff Control

Purpose

The objective is to administer an erosion and sediment control program in accordance with the Virginia Erosion and Sediment Control Regulations, Section 4VAC50-30-40.

Measurable Goals

4a. applicable oversight

The program compiled the following statistics for construction site inspections during the reporting period:

| ESC Activity | # |
|---|-------|
| Total # of regulated land-disturbing activities | 546 |
| Total # of acres disturbed | 121.5 |
| Total # of inspections conducted | 1855 |
| Total # of enforcement actions taken | 57 |
| Notice to Comply | 54 |
| Stop Work Orders | 3 |

Schedule of Activities for Next Reporting Cycle

DPU will continue to manage the ESC program.

5. Post-construction stormwater management in new development and development on prior developed lands

Purpose

The objective is address post-construction stormwater runoff that enters the MS4 from new development and development of prior developed lands.

Measurable Goal

- 5a. Maintain applicable oversight requirements;
- 5b. Require design criteria for stormwater runoff controls;
- 5c. Inspect operate and verify maintenance of stormwater management facilities;
- 5d. Have an updated Program Plan;
- 5e. Track stormwater management facilities.

| Post-construction Activity | # |
|--------------------------------------|----|
| Total # of inspections conducted | 58 |
| Total # of enforcement actions taken | 0 |
| Notice to Comply | 0 |

Schedule of Activities for Next Reporting Cycle

DPU will continue to monitor and track stormwater management facilities, including operator owned and private facilities.



Photo from a Feb 2014 inspection of a SCM at Vulcan Materials.

6. Pollution prevention/good housekeeping for municipal operations



Covered bulk material storage at Hopkins Rd. Vehicle Maintenance Facility. August 2014

Purpose

The objective is to minimize or prevent pollutant discharge from daily operations (road and parking lot maintenance, bulk material storage, etc.) The objective is to prevent pollution at operations facilities from entering the MS4.

Measurable Goal

6a. Minimize or prevent pollution from daily operations;

6b. Identify all municipal high priority (9 types) facilities, and their activities that could contribute to pollution and develop SWPPPs for such facilities;

The list of city facilities that require SWPPPs is in Attachment E.

6c. Implement turf and landscape management plans for all areas greater than 1 acre that apply nutrients;

City staff is compiling the list of facilities that meet these criteria and will implement turf and landscape management plans for all locations that meet the criteria.

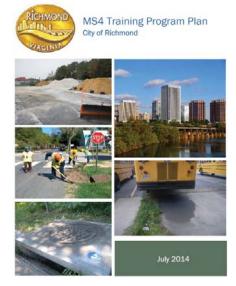
6d. Conduct training for employees;

City staff developed a training program for stormwater awareness for all city employees and for those employees involved in areas that are likely to have an effect on the MS4. The program will cover spill prevention, vehicle maintenance, bulk material storage, road and parking lot maintenance and facility maintenance. We developed a biennial training schedule to reach the appropriate personnel.

6e. Require municipal contractors use appropriate control measures for stormwater discharges.

City staff is developing a program to satisfy this requirement.

Schedule of Activities for Next Reporting Cycle



Employee training will cover material handling, road maintenance and vehicle repairs focusing on how to prevent stormwater pollution.

Employee Pollution Prevention and Training

Description

DPU will implement an employee-training program for operations staff involved with vehicle maintenance and field activities that may affect the MS4. The objective of this BMP is to provide pollution prevention training to City employees to inform them of proper practices to reduce the potential of pollutants entering the MS4.

Schedule of Activities for Next Reporting Cycle

During the next year, Pretreatment staff will deploy a Good Housekeeping training video as an online training course available to city employees in addition to area specific training. The training will be mandatory to all applicable employees.

Attachment A: Analytical Data for Flowing Outfalls Screened July 1, 2013-June 30, 2014

| Outfall ID | Collection Date | Test | QUAL | Result | TPQL | Unit | Analytical Method |
|------------|--------------------|------------------------|------|--------|------|------------|-------------------|
| PKC-001 | 12/02/13 | Total Suspended Solids | | 5 | 1 | mg/L | SM18/2540 D |
| PKC-001 | 12/02/13 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PKC-001 | 12/02/13 | E. Coli | | 22 | 1 | MPN/100 mL | SM 20 9223 B |
| PKC-RCB | 12/02/13 | Total Suspended Solids | | 11 | 1 | mg/L | SM18/2540 D |
| PKC-RCB | 12/02/13 | Ammonia | | 0.3 | 0.1 | mg/L | EPA 350.1 |
| PKC-RCB | 12/02/13 | E. Coli | | 727 | 1 | MPN/100 mL | SM 20 9223 B |
| PKC-RCB150 | 12/02/13 | Total Suspended Solids | | 20 | 1 | mg/L | SM18/2540 D |
| PKC-RCB150 | 12/02/13 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PKC-RCB150 | 12/02/13 | E. Coli | | 326 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-001 | 12/02/13 | Total Suspended Solids | | 4 | 1 | mg/L | SM18/2540 D |
| PSC-001 | 12/02/13 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-001 | 12/02/13 | E. Coli | | 36 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-MOUTH | 12/02/13 | Total Suspended Solids | | 2 | 1 | mg/L | SM18/2540 D |
| PSC-MOUTH | 12/02/13 | Ammonia | | 0.7 | 0.1 | mg/L | EPA 350.1 |
| PSC-MOUTH | 12/02/13 | E. Coli | > | 2420 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-002 | 12/03/13 | E. Coli | | 2 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-002 | 12/03/13 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-008 | 12/03/13 | E. Coli | | 10 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-008 | 12/03/13 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-010 | 12/03/13 | E. Coli | | 866 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-010 | 12/03/13 | Ammonia | | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-013 | 12/17/13 | E. Coli | | 2 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-013 | 12/17/13 | Ammonia | | 0.2 | 0.1 | mg/L | EPA 350.1 |
| PSC-014 | 12/17/13 | E. Coli | | 4 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-014 | 12/17/13 | Ammonia | | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-015 | 12/17/13 | E. Coli | | 4 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-015 | 12/17/13 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-019 | 12/17/13 | E. Coli | | 40 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-019 | 12/17/13 | Ammonia | | 0.1 | 0.1 | mg/L | EPA 350.1 |

| PSC-022 | 12/17/13 | E. Coli | | 88 | 1 | MPN/100 mL | SM 20 9223 B |
|--------------------|----------|------------------------|---|------|-----|------------|----------------|
| PSC-022 | 12/17/13 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-022 | 12/17/13 | Total Suspended Solids | | 4 | 1 | mg/L | SM18/2540 D |
| PSC-Mouth Resample | 12/17/13 | E. Coli | > | 2420 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-Mouth Resample | 12/17/13 | Ammonia | | 0.2 | 0.1 | mg/L | EPA 350.1 |
| PSC-029 | 12/20/13 | E. Coli | | 46 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-032 | 12/20/13 | E. Coli | | 980 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-032 | 01/02/14 | E. Coli | | 1410 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-032 | 01/02/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-032 | 04/30/14 | Fluoride | | 0.6 | 0.2 | mg/L | SM 20 4500 F C |
| PSC-032 | 04/30/14 | Orthophosphate | | 1.8 | 0.1 | mg/L | SM 18 4500 P E |
| PSC-033 | 12/20/13 | E. Coli | | 67 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-034 | 12/20/13 | E. Coli | | 41 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-036 | 12/20/13 | E. Coli | < | 1 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-029 | 01/02/14 | E. Coli | | 25 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-029 | 01/02/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-033 | 01/02/14 | E. Coli | | 51 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-033 | 01/02/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-034 | 01/02/14 | E. Coli | > | 2420 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-034 | 01/02/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-036 | 01/02/14 | E. Coli | < | 1 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-036 | 01/02/14 | Ammonia | | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-041 | 01/02/14 | E. Coli | | 387 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-041 | 01/02/14 | Ammonia | | 0.2 | 0.1 | mg/L | EPA 350.1 |
| PSC-041 Resample | 02/10/14 | E. Coli | | 72 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-041 Resample | 02/10/14 | Ammonia | | 0.2 | 0.1 | mg/L | EPA 350.1 |
| PSC-042 | 01/02/14 | E. Coli | | 326 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-042 | 01/02/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-042 Resample | 02/10/14 | E. Coli | | 10 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-042 Resample | 02/10/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-047 | 01/09/14 | E. Coli | | 3 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-047 | 01/09/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-050 | 01/09/14 | E. Coli | | 8 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-050 | 01/09/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| | | | | | | | |

| PSC-054 | 01/21/14 | E. Coli | | 1 | 1 | MPN/100 mL | SM 20 9223 B |
|---------|----------|------------------------|---|-----|-----|------------|--------------|
| PSC-054 | 01/21/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-056 | 01/21/14 | E. Coli | | 71 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-056 | 01/21/14 | Ammonia | | 0.2 | 0.1 | mg/L | EPA 350.1 |
| PSC-056 | 01/21/14 | Total Suspended Solids | | 3 | 1 | mg/L | SM18/2540 D |
| PSC-058 | 02/10/14 | E. Coli | | 23 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-058 | 02/10/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-062 | 02/10/14 | E. Coli | | 74 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-062 | 02/10/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-069 | 02/11/14 | E. Coli | | 13 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-069 | 02/11/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-071 | 02/11/14 | E. Coli | | 11 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-071 | 02/11/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-079 | 02/11/14 | E. Coli | | 1 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-079 | 02/11/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-082 | 02/11/14 | E. Coli | < | 1 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-082 | 02/11/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-083 | 02/11/14 | E. Coli | < | 1 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-083 | 02/11/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-086 | 02/12/14 | E. Coli | | 19 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-086 | 02/12/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-088 | 02/12/14 | E. Coli | | 42 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-088 | 02/12/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-089 | 02/12/14 | E. Coli | | 73 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-089 | 02/12/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-091 | 02/12/14 | E. Coli | < | 1 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-091 | 02/12/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-093 | 02/12/14 | E. Coli | | 66 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-093 | 02/12/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-096 | 02/24/14 | E. Coli | | 1 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-096 | 02/24/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-097 | 02/24/14 | E. Coli | | 1 | 1 | MPN/100 mL | SM 20 9223 B |
| PSC-097 | 02/24/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| PSC-101 | 02/24/14 | E. Coli | | 3 | 1 | MPN/100 mL | SM 20 9223 B |
| | | | | | | | |

| PSC-101 | 02/24/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
|------------|----------|-------------------------------|---|------|-----|------------|--------------|
| CBC-002 | 03/10/14 | E. Coli | ` | 3 | 1 | MPN/100 mL | SM 20 9223 B |
| CBC-002 | 03/10/14 | Ammonia | | 0.4 | 0.1 | mg/L | EPA 350.1 |
| | • • | | | | | • | |
| CBC-002 | 03/10/14 | Total Suspended Solids | | 11 | 1 | mg/L | SM18/2540 D |
| CBC-003 | 03/10/14 | E. Coli | | 20 | 1 | MPN/100 mL | SM 20 9223 B |
| CBC-003 | 03/10/14 | Ammonia | | 0.2 | 0.1 | mg/L | EPA 350.1 |
| CBC-004 | 03/10/14 | E. Coli | | 196 | 1 | MPN/100 mL | SM 20 9223 B |
| CBC-004 | 03/10/14 | Ammonia | | 0.1 | 0.1 | mg/L | EPA 350.1 |
| CBC-Mouth | 03/10/14 | E. Coli | | 73 | 1 | MPN/100 mL | SM 20 9223 B |
| CBC-Mouth | 03/10/14 | Ammonia | | 0.1 | 0.1 | mg/L | EPA 350.1 |
| CBC-Mouth | 03/10/14 | Total Suspended Solids | | 7 | 1 | mg/L | SM18/2540 D |
| CBC- Wythe | 03/10/14 | E. Coli | | 2420 | 1 | MPN/100 mL | SM 20 9223 B |
| CBC- Wythe | 03/10/14 | Ammonia | | 0.3 | 0.1 | mg/L | EPA 350.1 |
| CBC- Wythe | 03/10/14 | Total Suspended Solids | | 33 | 1 | mg/L | SM18/2540 D |
| CBC- Wythe | 03/10/14 | TKN | | 1.10 | 1 | mg/L | EPA 351.2 |
| CBC- Wythe | 03/10/14 | Nitrate+Nitrite | | 0.6 | 0.5 | mg/L | EPA 353.2 |
| CBC- Wythe | 03/10/14 | Total Phosphorus | | 0.1 | 0.1 | mg/L | EPA 365.1 |
| UB-005 | 03/11/14 | E. Coli | | 172 | 1 | MPN/100 mL | SM 20 9223 B |
| UB-005 | 03/11/14 | Ammonia | < | 0.1 | 0.1 | mg/L | EPA 350.1 |
| UB-005 | 03/11/14 | Total Suspended Solids | | 3 | 1 | mg/L | SM18/2540 D |
| UB-RHB | 03/11/14 | E. Coli | | 75 | 1 | MPN/100 mL | SM 20 9223 B |
| UB-RHB | 03/11/14 | Ammonia | | 0.2 | 0.1 | mg/L | EPA 350.1 |
| UB-RHB | 03/11/14 | Total Suspended Solids | | 4 | 1 | mg/L | SM18/2540 D |
| | | | | | | | |

| Initial Report Date | Issue Summary | Resolution | Follow-Up | Closure Date |
|---------------------------|---|---|---|-----------------|
| 07/01/2013 | COR IDDE PERSONNEL observed approximately 7 gallons of abandoned used motor oil in two partially capped 5-gallon pails situated in a drainage ditch along Ernest Road during routine field activities. The pails were observed to be stored in a slantways position. Evidence of minor leakage from one of the 5-gallon pails was observed. | Both 5-gallon pails were stabilized and stored for later removal by a contracted hazardous waste disposal company. One motion-activated observation camera was installed at the site. | Data from the camera was retrieved and reviewed periodically for a period of approximately five months. No further evidence of illegal dumping was observed during the course of the observation. | 11/26/2013 |
| 7/26/2013 | COR IDDE PERSONNEL responded to an internal request to investigate a drain line associated with a residential pool at 4210 Apache Court which was observed in the vicinity of Cherokee Creek / Cherokee Lake. The property owner stated pool is maintained year-round and therefore is never drained. Observed piping discharges small amounts of backwash to the turf grass area nearby. No evidence of discharge was observed during site reconnaissance. | An explanation of what is considered an allowable discharge and a verbal warning not to discharge chlorinated pool water or other illegal substances into the MS4 were issued to the homeowner. | | 07/26/2013 |
| 08/23/2013 | COR IDDE PERSONNEL responded to an internal request to investigate a drop inlet near the intersection of Rockbridge and MacTavish Streets for the possible presence of a sanitary component. Obvious evidence of a sanitary impact was not observed during the initial site reconnaissance. | Six additional observation events of the inlet were scheduled in an attempt to determine if a sanitary component was impacting the inlet. | Obvious evidence of a sanitary impact was not observed during any of the observation events. | 02/02/2014 |
| 09/16/2013 | COR IDDE PERSONNEL observed a large area of staining near a service door which leads to a nearby storm drain at a convenience store at 2012 Maury Street. The business owner stated that waste mop water from kitchen area was dumped out of the service door as a means of disposal. Areas of stained soil were also observed in the vicinity. | A verbal warning not to discharge wastewater into areas drained by the MS4 and a request to remediate the impacted area were issued to the business owner. | A follow-up inspection revealed that impacted soils had been removed. No additional evidence of dumping was observed. | 09/20/2013 |
| 09/16/2013 | COR IDDE PERSONNEL observed multiple improperly stored containers of fats, oil and grease (FOG) material and an area of associated staining leading to a nearby storm drain at a convenience store located at 911 Jefferson Davis Highway. | A verbal warning regarding improper storage of materials in areas drained by the MS4 and a request to remediate the impacted area were issued to the business owner. Additional observation events were scheduled to observe site conditions. | The initial follow-up inspection of the site revealed that the FOG-containing material had been removed from the site. Additional site observations did not reveal evidence of improper material storage at the site. | 11/21/2013 |

| Initial Report Date | Issue Summary | Resolution | Follow-Up | Closure Date |
|---------------------------|--|---|--|-----------------|
| 9/18/2013 | COR IDDE PERSONNEL responded to a forwarded request to investigate two abandoned 55-gallon drums containing kerosene contaminated water near the intersection of Dale and Trenton Avenue. The drums were observed to be overturned. One of the drums was observed to be releasing its contents into a nearby MS4 drainage ditch. | COR IDDE PERSONNEL righted the drums and applied sorbent to the released material. Drums were collected and disposed of by a contracted hazardous waste disposal company. Two motion-activated observation cameras have been installed at the site. | Camera data is retrieved and reviewed every 2 months. As of the issuance of this summary report, no evidence of further dumping of soluble and/or erodible material has been collected. The cameras are slated to be removed in September of 2014. | |
| 09/19/2013 | COR IDDE PERSONNEL received a forwarded citizen report that employees of River City Rubbish, located at 3009 W. Leigh Street, had dumped heating oil from a scrap AST into an alleyway behind the facility. | Site visit revealed a discharge of approximately 10-15 gallons of heating oil to the alleyway. A notice of violation letter which required immediate remediation of the impacted area was hand-delivered to the business owner. Free product was contained using sorbent material. Impacted soils and spent sorbent were transported to a centralized waste treatment facility for disposal. A description of the incident was forwarded to the Code Enforcement Department for review. | A follow-up inspection of the facility revealed the area impacted by the release to have been adequately remediated. | 10/01/2013 |
| 09/27/2013 | COR IDDE PERSONNEL observed a William Builders Plus employee dumping approximately 5 gallons of wastewater generated while cleaning paint rollers near a storm drain. Worker was performing renovations at the property at 1301 Hull Street. | A verbal warning was issued to the employee at the dumping location. The property owner and the painting company owner were notified of the incident and issued a verbal warning regarding illicit discharge to the storm sewer system. The owner of the company stated that he would re-train each of his employees in the proper disposal of wastewater. | | 09/27/2013 |
| 10/03/2013 | A review of Albro Creek outfall data prompted an investigation into a potential sanitary cross-connection. | Investigation revealed infiltration of sanitary sewage into an MS4 drain pipe resulting in elevated E. Coli and Ammonia levels in Albro Creek. The issue was forwarded to the COR Sewer Maintenance Group for further investigation. A break in a nearby sewer pipe was identified using a CCTV sewer inspection probe. The damaged sewer line was replaced. | Additional sampling revealed that the sanitary impact to Albro has been successfully abated. | 11/05/2013 |
| 11/05/2013 | COR IDDE PERSONNEL observed a homeowner at 2501 Afton Avenue dumping waste ashes from a residential fireplace into a nearby storm drain. | An explanation of what is considered an allowable discharge and a verbal warning not to discharge illegal substances into the storm drain were issued to the homeowner. | | 11/05/2013 |

| Initial Report | Issue Summary | Resolution | Follow-Up | Closure Date |
|-------------------|---|---|---|-----------------|
| Date | | | | Date |
| 11/11/2013 | COR IDDE PERSONNEL responded to an internal request to investigate a drainage ditch near 3021 Dorset Avenue for illegal dumping. The request was issued when a COR field crew reported a surface sheen in an area of standing water along the ditch line. | A natural sheen indicative of groundwater infiltration was observed at various points along the drainage ditch. Obvious evidence of illegal dumping was not observed during the inspection of the area. | | 11/11/2013 |
| 11/17/2014 | COR IDDE PERSONNEL observed sudsy water discharging from a PVC pipe to an alley behind a laundromat located at 4610 Jefferson Davis Hwy. | Investigation of the discharge revealed that an overflow at the laundry facility had resulted in a back-up of laundry wastewater into the facility's basement. The back-up had triggered an automated sump pump unit installed in the basement. The sump unit was situated to discharge to the adjacent alleyway. The facility was notified to remediate the discharge. The business owner contracted a plumber to unblock the sewer line serving the laundromat. | Follow-up inspection did not reveal evidence of an illicit discharge. A description of the incident was forwarded to the City's code enforcement branch for review. | 11/19/2013 |
| 11/19/2013 | COR IDDE PERSONNEL received forwarded report of leaking 55-gallon drum containing unknown material behind a convenience store located at 1017 Jefferson Davis Highway. A description of the incident was also forwarded to the City's code enforcement branch for review. | Illicit Discharge personnel and Code Enforcement personnel performed a joint inspection of the facility. Inspection revealed that a 55-gallon drum containing FOG-material had deteriorated to the point where it had released its contents to the adjacent sidewalk. A notice of violation letter requiring remediation of the area impacted by the release and proper dispose of the drum was issued to the property owner. | A follow-up inspection of the facility revealed the drum had been removed and the area impacted by the release to have been adequately remediated. | 12/02/2013 |
| 01/03/2014 | COR IDDE PERSONNEL received forwarded report of a maintenance company pressure-washing overhead ventilation filters for a commercial range outside a restaurant located at 700 E. Broad Street in a manner which was resulting in an illicit discharge to a nearby storm inlet. | COR IDDE PERSONNEL responded to the report while the pressure-washing activity was actively occurring. COR IDDE PERSONNEL issued a verbal warning to the maintenance contractor regarding the illicit discharge. COR IDDE PERSONNEL also issued a Notice of Deficiency to the owner of the property. | A follow-up FOG inspection was performed at the site to ensure the facility was adequately able to pretreat FOG-laden wastewater and inform managerial staff that all FOG-containing wastewater was to be discharged through pre-treatment devices which were plumbed to the sanitary sewer system. | 01/07/2014 |

| Initial Report Date | Issue Summary | Resolution | Follow-Up | Closure Date |
|---------------------------|---|---|---|-----------------|
| 01/21/2014 | COR IDDE PERSONNEL received a forwarded report of a resident at 2501 Afton Avenue dumping waste ashes from fireplace into a nearby storm drain. | An interview with the homeowner at 2501 Afton Avenue along with an observation of the drop inlet revealed evidence of additional dumping. The homeowner was issued a Notice of Violation. | A follow-up inspection of the drop inlet did not reveal evidence of additional dumping. | 02/21/2014 |
| 01/22/2014 | COR IDDE PERSONNEL observed a sanitary discharge from a broken cleanout in a parking area associated with a restaurant located at 6835 Midlothian Turnpike. | The business owner was not onsite at the initial discovery of the discharge. COR IDDE PERSONNEL spoke with the manager of the facility and informed him of the issue. The employee stated the business owner would be present at the site the following day. A notice of violation letter requiring immediate repair of the line was hand delivered to the business owner the following day. | A follow-up inspection of the cleanout revealed that the discharge had been abated and the sanitary cleanout had been adequately repaired. | 02/05/2014 |
| 02/03/2014 | COR IDDE PERSONNEL received a citizen complaint of possible material storage concerns at a residential property located at 1401 Sunbury which was being utilized as an ad-hoc automotive repair business. | Illicit Discharge personnel and Code Enforcement personnel performed a joint inspection of the property. Since there were multiple code enforcement violations, code enforcement personnel opted to issue a notice of violation letter which combined the concerns of both departments. A notice of violation letter requiring abatement of code enforcement concerns and material storage concerns was issued onsite. | A follow-up inspection of the residential property revealed the area to have been adequately remediated. | 02/20/2014 |
| 02/06/2014 | COR IDDE PERSONNEL received a forwarded internal report of a sanitary overflow from a failed private sanitary lateral at Match Point Apartments located at 5818 Westower Avenue. | Illicit Discharge personnel and Code Enforcement personnel performed a joint inspection of the property. The flow from the lateral was observed to be discharging directly to an unnamed tributary of Powhite Creek Creek at an estimated rate of approximately 5-10 GPM. Illicit discharge personnel notified facility management that they must immediately repair the issue to stop the discharge to Powhite Creek. Additionally, code enforcement personnel opted to issue a notice of violation. The discharge was stopped within 24-hours of its discovery. | A follow-up inspection of the area impacted by the release revealed that the area had been adequately remediated. Additionally, the area where the release occurred is scheduled to be observed and/or sampled by COR IDDE PERSONNEL every six months. As of the issuance of this summary, no evidence of additional sanitary impact has been revealed. | 03/05/2014 |

| Initial | Issue Summary | Resolution | Follow-Up | Closure |
|------------|--|---|---|------------|
| Report | | | | Date |
| Date | | | | |
| 02/28/2014 | COR IDDE PERSONNEL received a VDEQ-forwarded report of a heavy oil sheen which was observed in the Manchester Canal. The source of the oil sheen had been traced to an outfall pipe located near the property at 511 Bainbridge. | The sheen was initially suspected to be associated with a previous pollution complaint. VDEQ-contracted employees initialized remediation efforts to contain the oil discharge until the source of the discharge could be determined. COR IDDE PERSONNEL eventually tracked the discharge to a large diesel release at the Norfolk Southern facility at 405 W. 6 th Street which was entering the MS4 via a hidden grated drop inlet. COR IDDE PERSONNEL | A follow-up inspection of the area impacted by the release revealed that the area had been adequately remediated. | 03/12/2014 |
| | | notified Norfolk Southern management personnel to immediately begin remediation to contain and dispose of the released diesel. A report of the City of Richmond's findings at the Norfolk Southern facility was forwarded to the VDEQ for review. | | |

| Initial Report Date | Issue Summary | Resolution | Follow-Up | Closure Date |
|---------------------------|---|---|--|-----------------|
| 03/14/2014 | COR IDDE PERSONNEL identified evidence of sanitary sewer overflow at a culvert along Crutchfield Avenue during outfall reconnaissance activities. | Investigation revealed the sanitary impact had likely resulted from a back-up of a private sanitary lateral at Midlothian Village Apartments located at 4000 Midlothian Turnpike which had entered MS4 / Crooked Branch. The blockage was cleared by COR personnel within 12 hours of its discovery. However, since the overflow occurred in a section of Crooked Branch which is enclosed within concrete pipes, COR personnel were only able to try and locate the exact inflow point using CCTV sewer inspection probes. Unfortunately, the inflow point could not be located. COR IDDE PERSONNEL notified the owner of the Midlothian Village property that if additional sanitary impacts were observed and traced to a failure in the property's private sanitary collection system, the City of Richmond would pursue enforcement. | The culvert at Crutchfield is scheduled to be observed and/or sampled by COR IDDE PERSONNEL every six months until September of 2018. As of the issuance of this summary, no evidence of additional sanitary impact has been revealed. | 03/14/2014 |
| 03/25/2014 | COR IDDE PERSONNEL received a citizen complaint of possible material storage concerns at a residential apartment complex located at 621 Warwick Village. | A site investigation revealed that a landscaping company had recently placed an uncovered and uncontained mulch stockpile on an asphalt parking area within 10 feet of a drop inlet. The drop inlet was plumbed to discharge to an unnamed tributary of Reedy Creek. The owner of the landscaping company stated the stockpile was to be stored there temporarily until it could be dispersed to landscaped areas throughout the apartment complex. COR IDDE PERSONNEL explained that based on the lack of adequate containment, the stockpile storage as it was observed may be considered a threatened discharge to the MS4. The landscaping company agreed to contain the stockpile on the down slope side and cover it with a tarpaulin at the end of each work day until the pile was completely dispersed. | A follow-up up inspection late in the afternoon on 03/25/2014 revealed the stockpile to be adequately contained and covered. The stockpile was observed to have been removed from the parking on 04/11/2014. | 04/11/2014 |
| 03/26/2014 | COR IDDE PERSONNEL responded to an internal report that used cooking grease was repeatedly dumped outside of a restaurant located at 3300 Norfolk Street and was resulting in significant staining and grease accumulation along the sidewalk and in a nearby storm water drop inlet. | Illicit discharge personnel performed a site inspection of the area. Based on the findings, a NOV letter requiring remediation of the area impacted by the dumping was hand delivered to a corporate representative of the restaurant. | A follow-up inspection of the site on 04/11/2014 revealed that the area impacted by the dumping had been adequately remediated. Additionally, a dedicated waste grease receptacle was observed to have been installed at the site. | 04/07/2014 |

| Initial | Issue Summary | Resolution | Follow-Up | Closure |
|-----------------------|---|---|---|------------|
| Report | | | | Date |
| Date 04/9/2014 | COR IDDE PERSONNEL received a forwarded internal report of a sanitary overflow to a drop inlet plumbed to drain to Grindall Creek. The source of the discharge was determined to be a failed private sanitary lateral at the Foxwood Apartments located at 5004 Snead Road. At the time of the report the sanitary overflow had been successfully abated by City personnel in an effort to stop the impact to Grindall Creek. | Illicit discharge personnel performed a site inspection of the impacted area. Based on the COR IDDE PERSONNEL sewer maintenance report of the overflow and the evidence observed onsite, a notice of violation letter was issued to the property owner stating any future failure to maintain private infrastructure which resulted in a discharge to MS4 would be considered an intentional violation of the storm sewer ordinance | The overflow area is scheduled to be observed by COR IDDE PERSONNEL every six months until October of 2018. | 04/21/2014 |
| 04/30/2014 | COR IDDE PERSONNEL received a forwarded internal report of a PVC pipe plumbed through the wall of a building located at 2207 Everette Street which was discharging cloudy water to an adjacent sidewalk which then drained to a drop inlet plumbed to drain to Grindall Creek. | Illicit discharge personnel determined the discharge pipe was associated with a nearby business and was discharging wastewater from an industrial wet saw used for cutting granite. COR IDDE PERSONNEL informed the business owner that the discharge was not allowed by local ordinance. A notice of violation letter requiring that process wastewater be plumbed directly to the sanitary sewer system was issued to the business owner. The owner stated that he would install a temporary closed system which directed wastewater to a portable sump pump system that recirculated the water back through the wet saw would be installed until a permanent system could be installed. | On 05/06/2014, a follow-up revealed that the temporary system had been installed and appeared to be functioning as designed. A 06/12/2014 inspection of the site revealed the PVC pipe had be permanently capped. No evidence of additional discharge was observed. | 06/12/2014 |
| 06/03/2014 | COR IDDE PERSONNEL received a citizen complaint of possible an illegal discharge of pool water at a municipal pool located at 2405 Hawthorne Avenue. | A site investigation revealed that a City of Richmond Department of Parks and Recreation-contracted pressure washing company had discharged water from a pool into a nearby park area. According to the contractor, they had been discharging the water which had accumulated in the pool during the offseason into a nearby sanitary sewer line when it had backed up and resulted in the release to the nearby park. The contractor stated that the water was dechlorinated. COR IDDE PERSONNEL instructed the contract personnel that all discharges including those from pressure washing operations would have to discharged directly into the sanitary line at a rate that did not result in a back-up. Field screenings collected from the pooled discharge water did not reveal the presence of chlorine. | A report of the incident was forwarded to Department of Parks and Recreation facility management staff. | 06/03/2014 |

| Initial | Issue Summary | Resolution | Follow-Up | Closure |
|------------|--|--|-----------|------------|
| Report | | | | Date |
| Date | | | | |
| 06/17/2014 | COR IDDE PERSONNEL observed the owner of a business located at 27 E. 2nd Street dump approximately 1 gallon of antifreeze in a storm drain in front of the business. COR IDDE PERSONNEL spoke with the business owner who stated he believed that the drop inlet was plumbed to drain to the City's wastewater treatment plant. COR IDDE PERSONNEL informed the business owner that the discharge as it was observed was illegal and that a notice of violation letter would be issued for the incident. | A notice of violation was hand-delivered to the business owner. The violation letter informed the business owner that any further discharges would be considered intentional illicit discharge and enforced as such. | | 06/18/2014 |

| Facility Type | BMP Name/Description | Street # | Street Name | Total Acres | Impervious Acres | Pervious Acres | Brought Online | UIIC 12 | Impaired Water Segments | Owned | Maintenance Agreement ? | Most Recent |
|--|---|-------------|----------------------------------|----------------|---------------------|-------------------|-------------------|-------------|--|---------|----------------------------|----------------|
| Infiltration Practices w/o | | | | Treated | Treated | Treated | | HUC 12 | James River, Slate River, | | | Inspection |
| Sand, Vegetation | Infiltration Trench | 8201 | Ammonett Drive | 0.03 | 0.03 | 0 | 07/20/07 | 20802050607 | | Private | None | 06/19/12 |
| Wet Ponds | Forebay | 4210 | Apache Court | 351.2 | 58.91 | 292.29 | 6/30/2005 | 20802050606 | Slate River, Salles Creek, Salles Creek UT James Kiver, Slate Kiver, | Private | None | 05/12/14 |
| Bioswale Bioretention A/B Soils, | Bio-filtration | 708 | Bainbridge Street | 1.17 | 1.05 | 0.12 | 02/16/08 | 20802050607 | | Private | None | 10/31/11 |
| Underdrain | Raingarden/basin | 1000 | Bainbridge Street | 0.71 | 0.5 | 0.21 | 09/21/12 | 20802050607 | | Private | None | 09/21/12 |
| Underground Detention | Hydraulic Detention | 2409 | Bainbridge Street | 0.52 | 0.18 | 0.34 | 09/27/11 | 20802050607 | | Private | None | 03/22/14 |
| Underground Detention | Hydraulic Detention | 2409 | Bainbridge Street | 0.94 | 0.29 | 0.65 | 09/27/11 | 20802050607 | | Private | None | 03/22/14 |
| Filtering Practices | Filterra™ | 301 | Belt Boulevard | 0.46 | 0.46 | 0 | 01/15/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James หเงer, Siate หเงer, | Private | None | 05/15/14 |
| Filtering Practices | Filterra™ | 301 | Belt Boulevard | 0.5 | 0.5 | 0 | 01/15/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | 05/15/14 |
| Filtering Practices | Filterra™ | 301 | Belt Boulevard | 0.32 | 0.32 | 0 | 01/15/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Siate Kiver, | Private | None | 05/15/14 |
| Filtering Practices | Filterra™ | 301 | Belt Boulevard | 0.5 | 0.5 | 0 | 01/15/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Slate Kiver, | Private | None | 05/15/14 |
| Filtering Practices | Filterra™ | 301 | Belt Boulevard | 0.33 | 0.33 | 0 | 01/15/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Siate Kiver, | Private | None | 05/15/14 |
| Filtering Practices | Filterra™ | 301 | Belt Boulevard | 0.5 | 0.5 | 0 | 01/15/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Slate Kiver, | Private | None | 05/15/14 |
| Filtering Practices | Filterra™ | 301 | Belt Boulevard | 0.36 | 0.36 | 0 | 01/15/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Slate Kiver, | Private | None | 05/15/14 |
| Underground Detention | Piped Detention | 301 | Belt Boulevard | 11.55 | 10.71 | 0.84 | 01/15/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Slate Kiver, | Private | None | 05/15/14 |
| Underground Detention | Piped Detention | 23B | Boatwright Drive | 0.52 | 0.52 | 0 | 07/15/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek Falling Creek, Falling Creek кеservoir, | Private | None | 03/17/14 |
| Dry Detention Ponds | Detention Basin Concrete Swale with Weir for | 2845 | Broad Rock Blvd | 0.22 | 0 | 0.22 | 11/09/10 | 20802060102 | Falling Creek UT, Horners Run, Falling Creek, Falling Creek Reservoir, | Private | None | 05/12/14 |
| Detention Bioretention A/B Soils, | Detention | 2990 | Broad Rock Blvd | 0.45 | 0.23 | 0.22 | 03/02/12 | 20802060102 | Falling Creek UT, Horners Run, James River, Slate River, | Private | None | 06/19/12 |
| Underdrain | Bioretention filter | 6501 | Buckhill Road | 0.23 | 0.23 | 0 | 09/10/09 | 20802050607 | | Private | None | 09/21/11 |
| Underground Detention | Piped Detention | 4004 | Cary Street Road | 0.9 | 0.67 | 0.23 | 04/16/10 | 20802060403 | • | Private | None | 06/19/12 |
| Underground Detention | Piped Detention | 4004 | Cary Street Road | 0.66 | 0.45 | 0.21 | 04/16/10 | 20802060403 | Upham Brook, Upham Brook UT (XAR), Upham Brook UT Cnickanominy kiver, North Kun, | Private | None | 06/19/12 |
| Underground Detention | Piped Detention | 4004 | Cary Street Road | 1.4 | 0.66 | 0.74 | 04/16/10 | 20802060403 | Upham Brook, Upham Brook UT (XAR), Upham Brook UT Chickahominy River, North Run, | Private | None | 06/19/12 |
| Filtering Practices | Filterra™ | 4200 | Cary Street Road | 0.777 | 0.59 | 0.187 | 05/02/12 | 20802060403 | • | Private | None | 05/15/13 |
| Filtering Practices | Filterra™ | 4200 | Cary Street Road | 0.749 | 0.572 | 0.177 | 05/02/12 | 20802060403 | • • • | Private | None | 05/15/13 |
| Underground Detention Dry Extended Detention | Piped Detention | 4200 | Cary Street Road Chamberlayne | 2.15 | 1.663 | 0.487 | 05/02/12 | 20802060403 | • | Private | None | 05/15/13 |
| Ponds | Extended Detention Pond | 1415 | Parkway Chamberlayne | 9.62 | 7.526 | 2.094 | 12/04/12 | 20802060101 | | Private | Pending | 05/15/13 |
| Filtering Practices | StormTech Chamber System | 2219 | Parkway | 1.83 | 1.83 | 0 | 01/07/09 | 20802060101 | | Public | Not required | 05/15/13 |
| Filtering Practices | Filterra™ | 9131 | Cherokee Road | 0.26 | 0.26 | 0 | 09/30/09 | 20802050606 | , | Private | None | 07/27/11 |
| Filtering Practices | Filterra™ | 9131 | Cherokee Road | 0.75 | 0.75 | 0 | 09/30/09 | 20802050606 | Slate River, Salles Creek, Salles Creek UT | Private | None | 07/27/11 |
| Filtering Practices | Filterra™ | 9131 | Cherokee Road | 1.05 | 1.05 | 0 | 09/30/09 | 20802050606 | James River, James River UT (XZE), Slate River, Salles Creek, Salles Creek UT | Private | None | 07/27/11 |
| Filtering Practices | Filterra™ | 9131 | Cherokee Road | 1.05 | 1.05 | 0 | 09/30/09 | 20802050606 | James River, James River UT (XZE), Slate River, Salles Creek, Salles Creek UT James River, James River UT (XZE), | Private | None | 07/27/11 |
| Filtering Practices | Filterra™ | 9131 | Cherokee Road | 0.23 | 0.23 | 0 | 09/30/09 | 20802050606 | Slate River, Salles Creek, Salles Creek UT | Private | None | 07/27/11 |
| Dry Extended Detention Ponds | Extended Detention | 10655 | Cherokee Road | 0.89 | 0.89 | 0 | 09/01/09 | 20802050606 | James River, James River UT (XZE), Slate River, Salles Creek, Salles Creek UT | Private | None | |

| Filtering Practices | e 04/01/14 ired e 06/19/12 ired |
|--|--|
| Filtering Practices Filte | e 04/01/14 ired e 06/19/12 ired |
| Millorground Detention | e 04/01/14 ired e 06/19/12 ired |
| Filtering Practices Vegetated Open Channels A/B Solis, No Underdrain Dry Detention Ponds Nutrient Credits Nutrient Credits Nutrient Credits Nutrient Credits Nutrient Credits No Road Department Dry Detention Ponds Bioretention Basin StormEch Underground Filtering Practices Island Street Island Street Island Street Island Street Island Street Island Street Island Island Street Island Island Island Island Island Island Island Island Island Island Island Island Island Island Island Island Island Island Island Island Island Island Island Island Island Island Islan | ired 06/19/12 ired |
| Filtering Practices Vegetated Open Channels A/B Solis, No Underdrain A/B Solis, No Underdrain Dry Detention Ponds Detention Pond Dry Detention Ponds Dry Detention Basin StormTech Underground Filtering Practices w/o Sand, Vegetation Fool Point™ 1810 East Cary Street O.82 D.82 D.82 D.82 D.82 D.82 D.82 D.82 D.82 D.82 D.83 D.84 D.87 D.8 | e 06/19/12 ired |
| A/B Soils, No Underdrain Grassed Swale 4321 Custis Road 3.25 0.27 2.98 06/30/08 20802050607 Powhite Creek, Rattlesnake Creek, Reedy Creek Almond Creek, Almond Creek UT (XYA), Public Not require the poepwater Terminal Nutrient Credits Nutr | ired |
| Nutrient Credits Nutrient Credits 360 Road 37.3 17.7 19.6 04/15/14 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Non Deepwater Terminal Pry Detention Ponds Bioretention C/U Soils, Underdrain Bioretention Practices W/o Sand, Vegetation Focal Point™ 1810 East Cary Street 0.107 0.107 0.107 0.015/2 0.05/16/07 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Non Almond Creek, Almond Creek UT (XYA), Private Non Almond Creek, Almond Creek, Almond Creek, Almond Creek, Gillies Creek, Goode Creek, Public Not required Practices almond Practices W/o Sand, Vegetation Stormpure Unit 2101 East Cary Street 0.15 0.15 0.05/16/07 20802060101 Broad Rock Creek, Almond Creek, Gillies Creek, Goode Creek, Creek, G | |
| Deepwater Terminal Dry Detention Ponds Bioretention (∠) Soils, Underdrain Filtering Practices Infiltration Trench Bioretention (∠) Soils, Underdrain Bioretention (∠) Soils, Underdrain Filtering Practices W/o Sand, Vegetation Filteriton Practices W/o Sand, Vegetation Sond, Vege | |
| Hidderdrain C/D Soils, Underdrain Bioretention Basin 2803 Dock Street 0.41 0.236 0.174 6/30/2005 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Public Not requirement of the control of the | ired 06/19/12 |
| StormTech Underground Filtering Practices Infiltration Practices W/o Sand, Vegetation Infiltration Practices W/o Sand, Vegetation Stormpre Unit Storm Tech Underground Storm Tech Underground 102 East 10th Street 0.4 0.32 0.08 04/08/08 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Noregation Broad Rock Creek, Gillies Creek, Goode Creek, Private Noregation Broad Rock Creek, Gillies Creek, Goode Creek, Private Noregation Broad Rock Creek, Gillies Creek, Goode Creek, Private Noregation Broad Rock Creek, Gillies Creek, Goode Creek, Private Noregation Broad Rock Creek, Gillies Creek, Goode Creek, Private Noregation Broad Rock Creek, Gillies Creek, Goode Creek, Private Noregation Stormpure Unit Almond Creek, Almond Creek, Gillies Creek, Goode Creek, Private Noregation Almond Creek, Gillies Creek, Goode Creek, Private Noregation Almond Creek, Almond Creek UT (XYA), Sand, Vegetation Stormpure Unit Stormpure Uni | |
| Filtering Practices Inflitration Practices W/O Sand, Vegetation Infiltration Practices W/O Sand, Vegetation Stormpure Unit Infiltration Practices W/O Sand, Vegetation Infiltration Practices W/O Sand, Vegetation Stormpure Unit Infiltration Practices W/O Sand, Vegetation Infiltration Practices W/O Sand, Vegetation Stormpure Unit Infiltration Practices W/O Sand, Vegetation Infiltration Practices W/O Infiltration Practices W | ired 01/19/13 |
| Infiltration Practices w/o Sand, Vegetation Infiltration Trench 801 East 4th Street 0.91 0.74 0.17 6/30/2005 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Bioretention C/D Soils, Underdrain Focal Point™ 1810 East Cary Street 0.82 0.82 0 04/01/14 20802060101 James River, James River Tidal Freshwater (Upper) Estuary, Private Non Infiltration Practices w/o Sand, Vegetation Stormpure Unit 2100 East Cary Street 0.107 0.107 0 04/20/07 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Non Almond Creek, Almond Creek UT (XYA), Sand, Vegetation Stormpure Unit 2101 East Cary Street 0.107 0.107 0 05/16/07 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Non Almond Creek, Almond Creek UT (XYA), Sand, Vegetation Stormpure Unit 2101 East Cary Street 0.15 0.15 0 05/16/07 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Non | ired 05/15/14 |
| Bioretention C/D Soils, Underdrain Focal Point™ 1810 East Cary Street 0.82 0.82 0 04/01/14 20802060101 James River, James | |
| Underdrain Focal Point™ 1810 East Cary Street 0.82 0.82 0 04/01/14 20802060101 James River, James River, James River Tidal Freshwater (Upper) Estuary, Private Non Almond Creek, Almond Creek, Almond Creek, Almond Creek, Goode Creek, Private Non Infiltration Practices w/o Infiltration Practices w/o Sand, Vegetation Stormpure Unit 2101 East Cary Street 0.15 0.15 0 05/16/07 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Non Almond Creek, Almond Creek, Almond Creek, Almond Creek, Goode Creek, Goode Creek, Private Non Sand, Vegetation Stormpure Unit 2101 East Cary Street 0.15 0.15 0 05/16/07 20802060101 Broad Rock Creek, Goode Creek, Private Non | 9/20/11 |
| Infiltration Practices w/o Sand, Vegetation Stormpure Unit 2100 East Cary Street 0.107 0.107 0 04/20/07 20802060101 Broad Rock Creek, Glilies Creek, Goode Creek, Private Non Infiltration Practices w/o Sand, Vegetation Stormpure Unit 2101 East Cary Street 0.15 0.15 0 05/16/07 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Non Sand, Vegetation Stormpure Unit 2101 East Cary Street 0.15 0.15 0 05/16/07 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Non | |
| Infiltration Practices w/o Almond Creek, Almond Creek UT (XYA), Sand, Vegetation Stormpure Unit 2101 East Cary Street 0.15 0.15 0 05/16/07 20802060101 Broad Rock Creek, Goode Creek, Private Non | |
| Sand, Vegetation Stormpure Unit 2101 East Cary Street 0.15 0.15 0 05/16/07 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Non | 1 |
| | 06/30/11 |
| Filtering Practices Filterra™ 2600 East Cary Street 0.06 0.06 0 11/07/08 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Non Almond Creek, Almond Creek, U (XYA), | 06/12/13 |
| Filtering Practices Filterra™ 2600 East Cary Street 0.06 0.06 0 11/07/08 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Non Bioretention C/D Soils, | 06/12/13 |
| Underdrain Bioretention Cell 1015 East Clay Street 0.08 0.08 0 10/13/11 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Yes Bioretention C/D Soils, | 10/31/11 |
| Underdrain Rain Garden 1709 East Clay Street 0.388 0.384 0.004 11/16/11 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private Non Falling Creek, | 04/21/14 |
| Filtering Practices Filterra™ 1533 East Main Street 0.3 0.3 0 6/30/2005 20802060102 Falling Creek UT, Horners Run, Public Not required Falling Creek, Falli | ired 09/10/07 |
| Filtering Practices Filterra™ 1533 East Main Street 0.24 0.22 0.02 6/30/2005 20802060102 Falling Creek UT, Horners Run, Public Not requalified in the control of the contr | ired 09/10/07 |
| Dry Detention Ponds Detention Pond 2823 East Main Street 1.05 0.68 0.37 12/11/12 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Public Not requirement of the control of the co | ired |
| Filtering Practices Filterra™ 2823 East Main Street 0.41 0.3157 0.0943 12/11/12 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Public Not requirements Almond Creek, Almond Creek, Almond Creek, Almond Creek, Almond Creek, Oode Creek, Goode Creek, Public Not requirements Not requireme | ired |
| Hydrodynamic Structures Stormceptor™ 4804 East Main Street 1.5 1.5 0 04/01/11 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Private pendi Almond Creek, Almond Creek UT (XYA), | ng 11/10/11 |
| Underdrain Bioretention 3000 East Marshall Street 0.58 0.46 0.12 6/30/2005 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Public Not requestion C/D Soils, Almond Creek, Almond Creek UT (XYA), | ired 10/09/13 |
| Underdrain Bioretention 3000 East Marshall Street 0.56 0.37 0.19 6/30/2005 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Public Not require Infiltration Practices w/ Sand, Almond Creek, Almond Creek UT (XYA), | ired 10/09/13 |
| Vegetation Planter 3000 East Marshall Street 0.42 0.3 0.12 6/30/2005 20802060101 Broad Rock Creek, Glilies Creek, Goode Creek, Public Not require Infiltration Practices w/o Almond Creek, Almond Creek UT (XYA), | ired 10/09/13 |
| Sand, Vegetation Planter 3000 East Marshall Street 0.62 0.27 0.35 6/30/2005 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Public Not require Infiltration Practices w/o Almond Creek, Almond Creek UT (XYA), | ired 10/09/13 |
| Sand, Vegetation Planter 3000 East Marshall Street 0.37 0.37 0 6/30/2005 20802060101 Broad Rock Creek, Gillies Creek, Goode Creek, Public Not requestion Falling Creek Reservoir, | |
| Bioretention Bioretention 4615 Ferguson Road 6/30/2005 20802060102 Falling Creek UT, Horners Run, Public Not requirements of the Chickshominy River, North Run, | ired 10/09/13 |
| Underdrain Bioretention Cell 5916 Ferguson Road 0.63 0.63 0 6/30/2005 20802060403 Upham Brook, Upham Brook UT (XAR), Upham Brook UT Private pendi Chickahominy River, North Run, | |
| Underground Detention Raintank 5916 Ferguson Road 2.69 0.99 1.7 6/30/2005 20802060403 Upham Brook, Upham Brook UT (XAR), Upham Brook UT Private Non | ired 01/01/14 |

| | | | | | | | | | James River, Slate River, | | | |
|---|---|------|---------------------|-------|-------|-------|-----------|-------------|--|---------|--------------|----------|
| Dry Detention Ponds | Detention Basin | 7846 | Forest Hill Ave | 0.49 | 0.26 | 0.23 | 12/01/06 | 20802050607 | · | Private | None | 06/19/12 |
| Wet Ponds | Wet Pond | 7945 | Forest Hill Ave | 13.05 | 13.05 | 0 | 6/30/2005 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Public | Not required | |
| Underground Detention | Piped Detention Reduced Impervious Area - No | 1 | Gateway Road | 1.06 | 0.68 | 0.38 | 12/06/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek Chickahominy River, North Run, | Private | None | |
| Reduced Impervious Area Infiltration Practices w/o | BMP Required | 6001 | Grove Avenue | 0.92 | 0.66 | 0.26 | 09/21/10 | 20802060403 | Upham Brook, Upham Brook UT (XAR), Upham Brook UT James River, Slate River, | Private | None | 03/15/14 |
| Sand, Vegetation Infiltration Practices w/o | Infiltration Trench | 301 | Hillwood Road | 0.043 | 0.043 | 0 | 10/01/11 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | 06/19/12 |
| Sand, Vegetation | Infiltration Trench | 301 | Hillwood Road | 0.039 | 0.039 | 0 | 10/01/11 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Siate Kiver, | Private | None | 06/19/12 |
| Dry Detention Ponds | Detention Basin | 200 | Hioaks Road | 4.2 | 2.52 | 1.68 | 03/19/09 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Slate Kiver, | Private | None | 08/18/11 |
| Bioswale | Biofiltration Swale | 721 | Hull Street | 1.17 | 1.05 | 0.12 | 02/16/08 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | 05/12/14 |
| Detention Basin | Detention Basin | 913 | Hull Street | 0.25 | | | 11/16/09 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Slate Kiver, | Public | Not required | 03/12/14 |
| Filtering Practices | StormTech Chamber North | 920 | Hull Street | 1.08 | 1.06 | 0.02 | 03/05/09 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Slate Kiver, | Public | Not required | |
| Filtering Practices | StormTech Chamber West | 920 | Hull Street | 0.25 | 0.19 | 0.06 | 03/05/09 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Slate Kiver, | Public | Not required | |
| Filtering Practices | StormTech Chamber East | 920 | Hull Street | 0.4 | 0.31 | 0.09 | 03/05/09 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Slate Kiver, | Public | Not required | |
| Dry Detention Ponds | Detention Basin | 2128 | Hull Street | 1.25 | 0.44 | 0.81 | 05/15/14 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek Almond Creek, Almond Creek U I (XYA), | Private | None | |
| Detention | Hydraulic Structure - Ditch | 5326 | Hull Street Road | 8.5 | 3.28 | 8.49 | 05/10/10 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almond Creek, Almond Creek UT (XYA), | Private | None | |
| Dry Detention Ponds | Detention Basin | 1250 | Ingram Ave | 2.54 | 2.54 | 0 | 01/03/14 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almond Creek, Almond Creek UT (XYA), | Private | None | |
| Dry Detention Ponds | Detention Basin | 1250 | Ingram Ave | 3.28 | 3.28 | 0 | 01/03/14 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, James Kiver, Slate Kiver, | Private | None | |
| Underground Detention | Piped Detention | 6643 | Jahnke Road | NA | NA | NA | 01/14/09 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek Almona Creek, Almona Creek U I (XYA), | Private | None | 11/14/11 |
| Detention | Hydraulic Detention/Ditch | 1517 | Jefferson Davis Hwy | 0.67 | 0.2 | 0.47 | 04/09/08 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almona Creek, Almona Creek UT (XYA), | Private | None | 07/27/11 |
| Hydrodynamic Structures | Contech CDS Vortex Separator | 2600 | Jefferson Davis Hwy | 0.51 | 0.51 | 0 | 08/01/13 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Chickahominy River, North Run, | Private | None | 06/12/13 |
| Underground Detention | Piped Detention | 1012 | Lafayette Street | 0.19 | 0.16 | 0.03 | 06/24/11 | 20802060403 | Upham Brook, Upham Brook UT (XAR), Upham Brook UT James кіver, Siate кіver, | Private | None | 05/12/14 |
| Filtering Practices | Filterra™ | 2412 | Lakeview Ave | 0.073 | 0.073 | 0 | 01/13/12 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek LNICKANOMINY KIVER, NORTH KUN, | Private | None | |
| Underground Detention | Piped Detention | 508 | Libbie Ave | 0.207 | 0.12 | 0.087 | 06/28/12 | 20802060403 | Upham Brook, Upham Brook UT (XAR), Upham Brook UT Chickahominy River, North Run, | Private | None | |
| Underground Detention vegetated Open Channels | Piped Detention | 1100 | Libbie Ave | 1.3 | 0.704 | 0.596 | 05/05/14 | 20802060403 | Upham Brook, Upham Brook UT (XAR), Upham Brook UT James Kiver, Siate Kiver, | Private | None | |
| A/B Soils, No Underdrain | Vegetated Filter Strip | 302 | Long Lane | 0.94 | 0.28 | 0.66 | 08/05/13 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Siate Kiver, | Private | None | |
| Underground Detention | Piped Detention | 901 | McDonough Street | 1.86 | 1.86 | 0 | 04/10/13 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek Almona Creek, Almona Creek UT (XYA), | Private | None | |
| Parking Lot Detention Permeable Pavement w/o | Parking Lot Detention Green Alley - Permeable Pavers | 1538 | Mechanicsville Tpke | 0.44 | 0.32 | 0.12 | 03/13/14 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almond Creek, Almond Creek UT (XYA), | Private | None | |
| Sand, Vegetation C/D Soils, Bioretention A/B Soils, No | Between West Franklin St & | 3200 | Monument Ave | 2.18 | 2.18 | 0 | 6/30/2005 | 20802060101 | | Public | | |
| Underdrain Bioretention A/B Soils, No | Bioretention | 5609 | New Kent Road | 0.035 | 0.035 | 0 | 07/27/12 | 20802050607 | · | Private | None | 05/03/13 |
| Underdrain Bioretention C/D Soils, | Bioretention | 5615 | New Kent Road | 0.063 | 0.063 | 0 | 05/04/13 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek Almond Creek, Almond Creek UT (XYA). | Private | None | |
| Underdrain | Bioretention | 3200 | Norfolk Street | 1.16 | 1.16 | 0 | 09/24/08 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almond Creek, Almond Creek UT (XYA), | Private | None | 06/19/12 |
| Underground Detention | Underground cistern | 3200 | Norfolk Street | 0.93 | 0.93 | 0 | 09/24/08 | 20802060101 | | Private | None | 06/19/12 |
| Underground Detention | Underground storage tank | 500 | North 18th Street | 0.78 | 0.71 | 0.06 | 02/25/12 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almond Creek, Almond Creek UT (XYA), | Private | None | |
| Underground Detention | Piped Detention | 202 | North 20th Street | 0.36 | 0.36 | 0 | 01/14/14 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almond Creek, Almond Creek UT (XYA), | Private | None | 01/14/14 |
| Underground Detention | Vortex Filter | 1207 | North 28th Street | 0.69 | 0.56 | 0.13 | 12/14/11 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, | Private | pending | |
| | | | | | | | | | | | | |

| | | | | | | | | | Almond Creek, Almond Creek UT (XYA), | | | |
|---|--|-------------|------------------------|--------|--------|-------|-------------|-------------|---|---------|--------------|----------|
| Underground Detention | Vortex Filter | 1207 | North 28th Street | 0.99 | 0.79 | 0.2 | 12/14/11 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almond Creek, Almond Creek UT (XYA), | Private | pending | |
| Underground Detention | Vortex Filter | 1207 | North 28th Street | 0.08 | 0.01 | 0.07 | 12/14/11 | 20802060101 | , , , | Private | pending | |
| Underground Detention Bioretention C/D Soils, | Piped Detention | 528 | North 2nd Street | 0.129 | 0.129 | 0 | 09/14/11 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almond Creek, Almond Creek UT (XYA), | Private | pending | |
| Underdrain | Bioretention Cell | 400 - 14 | 2 North 33rd Street | 2.913 | 1.458 | 1.456 | 08/03/11 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almond Creek, Almond Creek UT (XYA), | Private | pending | 04/23/13 |
| Underground Detention | Rain Tank A | 1301 | North Boulevard | 0.99 | 0.99 | 0 | 12/09/08 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almond Creek, Almond Creek UT (XYA), | Private | None | 03/12/13 |
| Underground Detention | Rain Tank B | 1301 | North Boulevard | 1.14 | 1.14 | 0 | 12/09/08 | 20802060101 | | Private | None | 03/12/13 |
| Dry Detention Ponds Infiltration Practices w/ Sand | Detention Pond | 1500 | North Lombardy Street | 3.48 | 2.26 | 1.22 | 08/15/14 | 20802060101 | | Private | None | |
| Vegetation Infiltration Practices w/o | Infiltration Trench | 3016 | Patterson Avenue | 0.162 | 0.147 | 0.015 | 6/30/2005 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Chickahominy River, North Run, | Private | None | 08/27/14 |
| Sand, Vegetation | Infiltration Trench | 9 | Paxton Road | 0.26 | 0.135 | 0.125 | 6/30/2005 | 20802060403 | Upham Brook, Upham Brook UT (XAR), Upham Brook UT James River, Slate River, | Private | None | 01/18/13 |
| Underground Detention | Piped Detention | 908 | Perry Street | 0.836 | 0.689 | 0.147 | 06/11/14 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | |
| Underground Detention Infiltration Practices w/o | Piped Detention | 909 | Perry Street | 0.883 | 0.684 | 0.199 | 07/11/12 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | |
| Sand, Vegetation | Infiltration Trench | 1004 | Perry Street | 0.129 | 0.075 | 0.054 | 07/27/11 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | |
| Underground Detention | Cistern | 1000 | Porter Street | 0.101 | 0.101 | 0 | 06/18/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | 10/31/11 |
| Permeable Pavement | Permeable Paver (north) | 1000 | Porter Street | 0.037 | 0.022 | 0.015 | 06/18/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | 10/31/11 |
| Permeable Pavement | Permeable Paver (south) | 1000 | Porter Street | 0.038 | 0.015 | 0.023 | 06/18/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | 10/31/11 |
| Underground Detention | Piped Detention Detention Basin and Parking Lot | 1020 | Porter Street | 0.201 | 0.105 | 0.051 | 05/02/13 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | |
| Dry Detention Ponds | Detention Detention Wall - Parking Lot | 5619 | Pride Road | 0.51 | 0.51 | 0 | 09/19/07 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | 06/19/12 |
| Parking Lot Detention Bioretention C/D Soils, | Detention | 5619 | Pride Road | 0.49 | 0.49 | 0 | 09/19/07 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek Almond Creek, Almond Creek UT (XYA), | Private | None | 06/19/12 |
| Underdrain | Bioretention | 1831 | Rady Ct | 0.03 | | | 03/04/11 | 20802060101 | | Private | None | 06/19/12 |
| Underground Detention Bioretention C/D Soils, | Piped Detention | 1601 | Rhoadmiller St | 0.61 | 0.48 | 0.13 | 02/20/13 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, James River, Slate River, | Private | None | 03/17/14 |
| Underdrain Infiltration Practices w/ Sand | Rain Garden | 5204 | Riverside Dr. | 0.059 | 0.039 | 0.02 | 10/15/12 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek Almond Creek, Almond Creek UT (XYA), | Private | None | |
| Vegetation | Infiltration Trench | 701 | Saint James Street | 0.626 | 0.626 | 0 | 07/06/11 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River UT (XZE), | Private | pending | |
| Bioswale | Vegetated Swale | 4301 | Saratoga Road | 0.0145 | 0.0145 | 0 | 03/28/08 | 20802050606 | Slate River, Salles Creek, Salles Creek UT James River, James River UT (XZE), | Private | None | 06/19/12 |
| Bioswale | Vegetated Swale | 4311 | Saratoga Road | 0.0163 | 0.0163 | 0 | 03/28/08 | 20802050606 | Slate River, Salles Creek, Salles Creek UT James Kiver, Siate Kiver, | Private | None | 06/19/12 |
| Underground Detention | Piped Detention | 2211 | Semmes Ave | 0.97 | 0.76 | 0.21 | 10/22/12 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James кıver, Sıate кıver, | Public | Not required | 10/22/12 |
| Filtering Practices | Filterra™ | 621 | South 2nd Street | 0.16 | 0.15 | 0.01 | 6/30/2005 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Siate Kiver, | Private | None | |
| Filtering Practices BIOTETENTION C/D SOIIS, | Filterra™ | 621 | South 2nd Street | 0.18 | 0.14 | 0.04 | 6/30/2005 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James Kiver, Slate Kiver, | Private | None | |
| Underdrain | Rain Garden | 401 615, | South Harrison Street | 0.99 | 0.53 | 0.46 | 05/20/08 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek | Private | None | 06/19/12 |
| Filterian Desetions | Stone Reservoir with underdrain | 617, | Caveth Lavoral Charact | 0.45 | 0.000 | 0.442 | 6 /20 /2005 | 20002050507 | James River, Slate River, | s · · | V | 05/45/40 |
| Filtering Practices Infiltration Practices w/o | going to CS | 619 | South Laurel Street | 0.15 | 0.038 | 0.112 | | | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | Yes | 05/15/13 |
| Sand, Vegetation Infiltration Practices w/o | Infiltration Trench | 210 | South Wilton Road | 0.114 | 0.114 | 0 | | | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | 06/19/12 |
| Sand, Vegetation Infiltration Practices w/o | Infiltration Trench | 210 | South Wilton Road | 0.095 | 0.095 | 0 | 6/30/2005 | | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | 06/19/12 |
| Sand, Vegetation | Infiltration System | 206 | South Wilton Street | 0.0477 | 0.0477 | 0 | 03/20/08 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek | Private | None | 06/19/12 |

| | | | | | | | | | James Kiver, James Kiver U I (XZE), | | | |
|---|----------------------------|------|----------------------|-------|-------|-------|-----------|-------------|--|---------|--------------|----------|
| Hydrodynamic Structures | Stormceptor™ | 9200 | Stony Point Pkwy | 1.48 | 1.48 | 0 | 03/01/10 | 20802050606 | Slate River, Salles Creek, Salles Creek UT Falling Creek, Falling Creek Reservoir, | Private | pending | 06/28/14 |
| Dry Detention Ponds | Detention Basin | 5720 | Swanson Road | 0.93 | 0.57 | 0.36 | 02/19/08 | 20802060102 | Falling Creek UT, Horners Run, Falling Creek, Falling Creek Keservoir, | Private | None | 05/12/14 |
| Filtering Practices | Filterra™ | 16 | Tow Path Lane | 0.32 | 0.11 | 0.21 | 6/30/2005 | 20802060102 | Falling Creek UT, Horners Run, Almond Creek, Almond Creek UT (XYA), | Private | None | 05/15/13 |
| Dry Detention Ponds | Detention Basin | 2101 | Venable Street | 0.69 | 0.69 | 0 | 03/20/08 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, James Kiver, Siate Kiver, | Private | None | 06/19/12 |
| Hydrodynamic Structures | Stormceptor™ | 301 | Virginia Street | 0.53 | 0.53 | 0 | 09/28/06 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek Falling Creek, Falling Creek Keservoir, | Private | None | |
| Filtering Practices Bioretention C/D Soils, | Biofilter Media | 3903 | Walmsley Blvd | 0.36 | 0.36 | 0 | 06/13/12 | 20802060102 | Falling Creek UT, Horners Run, Almond Creek, Almond Creek UT (XYA), | Private | None | 05/15/14 |
| Underdrain Bioretention C/D Soils, | Bioretention | 2409 | Webber Ave | 0.22 | 0.17 | 0.05 | 06/20/13 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almond Creek, Almond Creek UT (XYA), | Public | Not required | |
| Underdrain Bioretention C/D Soils, | Bioretention | 2409 | Webber Ave | 0.36 | 0.29 | 0.07 | 06/20/13 | 20802060101 | , , , , | Public | Not required | |
| Underdrain Bioretention C/D Soils, | Bioretention | 2409 | Webber Ave | 0.67 | 0.56 | 0.11 | 06/20/13 | 20802060101 | , , , , | Public | Not required | |
| Underdrain Bioretention C/D Soils, | Bioretention | 2409 | Webber Ave | 0.3 | 0.27 | 0.03 | 06/20/13 | 20802060101 | , , , , | Public | Not required | |
| Underdrain Dry Extended Detention | Bioretention | 2409 | Webber Ave | 0.35 | 0.32 | 0.03 | 06/20/13 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, Almond Creek, Almond Creek UT (XYA), | Public | Not required | |
| Ponds | Extended Detention Basin | 2409 | Webber Ave | 1.84 | 1.17 | 0.67 | 06/20/13 | 20802060101 | Broad Rock Creek, Gillies Creek, Goode Creek, James Kiver, Siate Kiver, | Public | Not required | |
| Underground Detention | Piped Detention | 101 | West 12th Street | 0.505 | 0.404 | 0.101 | 06/19/14 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | |
| Underground Detention | Rainwater Tank | 8.5 | West Canal Street | 1.206 | 1.004 | 0.201 | 05/12/11 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek | Private | pending | 07/27/11 |
| Filtering Practices | StormTech Detention System | 1320 | West Cary Street | 0.495 | 0.495 | 0 | 10/04/07 | 20802050607 | | Private | None | 03/22/14 |
| Bioretention C/D Soils, Underdrain | Bioretention | 219 | West Graham Road | 0.71 | 0.41 | 0.3 | 6/30/2005 | 20802060101 | Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, | Public | Not required | 11/12/11 |
| Bioretention C/D Soils, Underdrain | Bioretention | 219 | West Graham Road | 0.24 | 0.18 | 0.06 | 6/30/2005 | 20802060101 | Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, | Public | Not required | 11/12/11 |
| Underground Detention | Piped Detention | 1 | West Jackson Street | 1.309 | 0.874 | 0.435 | 06/19/13 | 20802060101 | Almond Creek, Almond Creek UT (XYA), | Private | None | 06/20/13 |
| Bioretention C/D Soils, | • | _ | | | | | , , | | Chickahominy River, North Run, | | | , , |
| Underdrain | Bioretention Basin | 1600 | | 0.87 | 0.71 | 0.16 | 6/30/2005 | 20802060403 | Almond Creek, Almond Creek UT (XYA), | Public | Not required | 06/21/10 |
| Underground Detention | Piped Detention | 1200 | West Marshall Street | 0.88 | 0.88 | 0 | 07/10/13 | 20802060101 | | Private | None | 07/10/13 |
| Bioretention A/B Soils, Underdrain | Bioretention | 33A | Westhampton Way | 0.23 | 0.13 | 0.1 | 10/07/09 | 20802060403 | Upham Brook, Upham Brook UT (XAR), Upham Brook UT (XXP) | Private | None | 03/17/14 |
| Officerarain | Bioretention | JJA | westnampton way | 0.23 | 0.13 | 0.1 | 10/07/09 | 20802000403 | Chickahominy River, North Run, | riivate | None | 03/17/14 |
| Underground Detention | Piped Detention | 33A | Westhampton Way | 0.23 | 0.13 | 0.1 | 10/07/09 | 20802060403 | Upham Brook, Upham Brook UT (XAR), Upham Brook UT James River, Slate River, | Private | None | 03/17/14 |
| Filtering Practices | Filterra™ | 603 | Westover Hills Blvd | 0.72 | 0.64 | 0.08 | 07/11/13 | 20802050607 | | Private | None | |
| Filtering Practices | Filterra™ | 603 | Westover Hills Blvd | 0.71 | 0.63 | 0.08 | 07/11/13 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek James River, Slate River, | Private | None | |
| Dry Detention Ponds | Detention Pond | 2511 | Wise Street | 0.153 | 0.051 | 0.007 | 02/20/10 | 20802050607 | Powhite Creek, Rattlesnake Creek, Reedy Creek | Private | None | 03/22/14 |
| | | | | | | | | | | | | |

Attachment D: List of new BMPs in 2014

| Facility Location | | Impaired Water | uu o cub aasta a | Stormwater | Acres Treated | | | Date |) Ownership | Maintenance | Most |
|---------------------|--|--------------------------------------|------------------|-----------------------------|---------------|----------------|----------------|--------------------|-------------|-------------|----------------------|
| Address | Description | Segment | HUC 6th order | Management Facility Type | Imp. Acres | Perv. Acres | Total Acres | Brought On Line | Ownersnip | Agreement | Recent Inspection |
| MS4 Areas BM | Ps | | | | | 1 | | | | | |
| 5228 Hull Street Rd | O'Reilly Automotive Stores, Inc | James River, Almond Creek | 020802060101 | Dentention Pond | 0.18 | 0.95 | 1.13 | 03/13/14 | private | pending | 03/13/14 |
| 302 Long Lane | James River, Little Westham Creek | James River, Westham Creek | 020802050607 | Vegetated Filter Strip | 0.28 | 0.66 | 0.940 | 08/02/13 | private | pending | 08/02/13 |
| 2803 Dock St | In Chesbay (RMA) at Great Shiplock Park | James River, Almond Creek | 020802060101 | Pipe Detention | 0.236 | 0.174 | 0.410 | 07/02/13 | public | NA | 07/02/14 |
| 1600 Laburnum Ave | RPS/ Linwood Holton ES | Upham Brook | 020802060403 | Bio-retention | 0.71 | 0.16 | 0.87 | 02/01/14 | public | NA | 02/01/14 |
| 1250 Ingram Ave | RPS School Board Maint bldg | James River, Almond Creek | 020802060101 | Pipe Detention | 0.92 | 1.62 | 2.54 | 01/04/14 | public | NA | 01/04/14 |
| 1100 Libbie Ave | St. Mary's Hospital | Upham Brook | 020802060403 | Pipe Detention | 0.7 | 0.6 | 1.300 | 05/05/14 | private | no | 05/05/14 |
| 2128 Hull Street | Dollar General | James River, Little Westham Creek | 020802050607 | Detention Pond | 2.63 | 0.45 | 3.08 | 01/03/14 | private | no | 01/03/14 |
| 315 Cowardin Ave | Dollar Tree | James River, Little Westham Creek | 020802050607 | Pipe Detention | 0.72 | 0 | 0.72 | 04/01/14 | private | no | 04/01/14 |

Nutrient Credit Projects

| 3600 Deepwater | In Chesbay: 3800 Deepwater | | | | | | | | | |
|-----------------|----------------------------|---------------------------|--------------|------------------|--|-------|----------|---------|----|----------|
| Terminal Rd | Terminal LLC | James River, Almond Creek | 020802060101 | Nutrient Credits | | 37.3 | 04/14/13 | private | no | 04/14/13 |
| 1100 Libbie Ave | St. Mary's Hospital | Upham Brook | 020802060403 | Nutrient Credits | | 1.322 | 05/05/14 | private | no | 05/05/14 |

| City of | Richmond SWPPP Deter | mination List | | | | |
|---------|--------------------------------|--------------------------|-------------------|---------|-----------|--------------|
| Owner | Facility Name | Facility Address | Operation(s)* | Notes | Inspector | SWPPP? |
| DPR | Forest Hill Park Field Office | 4001 Stonewall Avenue | ESM, MS, PSF | MS4 | VR | Required |
| DPR | Byrd Park Field Office | 2301 Amelia Street | ESM, MS, PSF | MS4 | VR | Required |
| DPR | Oakwood Cemetery | 3101 Nine Mile Road | ESM, MS | CS, MS4 | VR | Required |
| DPR | Riverview Cemetery | 1305 Randolph Street | ESM, MS, PSF | CS, MS4 | VR | Required |
| DPR | Maury-Mount Olivette Cemetery | 2700 Maury Street | ESM, MS | MS4 | EF | Required |
| DPR | Operations Center | 823 Azalea Avenue | ESM, MS, PSF | MS4 | EF | Required |
| DPU | Operations Center | 2701 Kern Avenue | ESM, MS, PSF, VSM | CS,MS4 | VR | Required |
| DPW | Parker Field Operations Center | 2705 N. Boulevard | ESM, MS, SSF, VSM | cs | VR | Required |
| DPW | Urban Forestry | 800 Forest Lawn Drive | ESM, VSM | MS4 | EF | Required |
| DPW | Grounds Maintenance | 6120 Warwick Road | ESM, MS, PSF, VSM | MS4 | EF | Required |
| DPW | Main Street Station | 1500 E. Main Street | ESM, VSM | cs | EF | Not Required |
| DPW | Richmond Ambulance Authority | 2400 Hermitage Road | VSM | cs | EF | Required |
| DPW | Whitcomb Laydown Yard | 2100 Whitcomb Street | PW, MS, ESM | MS4 | VR | Required |
| DPW | First Tee Public Golf Course | 500 School Street | PSF | cs | EF | Required |
| RPS | Arlington Road Warehouse | 1722 Arlington Road | MS | cs | EF | Required |
| RPS | Plant and Special Services | 2907 N. Boulevard | ESM, VSM, MS | cs | VR | Required |
| RPS | Transit Warehouse | 3501 Belt Boulevard | VSM | MS4 | VR | Required |
| RPS | School Bus Maintenance | 1903 Chamberlayne Avenue | VSM | MS4 | EF | Required |
| RPS | Maintenance Yard | 7400 Forest Hill Avenue | SSF | MS4 | VR | Required |

^{*} Composting Facilities = CF, Equipment Storage and Maintenance = ESM, Material Storage Yards = MS, Pesticide Storage Facility = PSF, Public Works Yards = PW, Recycling Facility = RF, Salt Storage Facility = SSF, Solid Waste Handling and Transfer = SWF, Vehicle Storage and Maintenance = VSM